2013-2014 Course Sequence Mechanical Engineering and Computing Technology

1st YEAR (30 credits)

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2nd YEAR (36 credits)

		Session	Prerequisite(s)
ADM1100	Introduction to Business Management	Fall	
MAT2322	Calculus III for Engineers	Fall	(MAT1322 or MAT1325 or MAT1332), (MAT1341 or CEGEP linear algebra)
MAT2384	Ordinary Differential Equations		
	and Numerical Methods	Fall	MAT1341, (MAT1322 or MAT1325 or MAT133
MCG2108	Mechanics II	Fall	GNG1105; corequisite: MAT2322
MCG2130	Thermodynamics I	Fall	CHM1311 or equivalent
MCG2360	Engineering Materials I	Fall	CHM1311 or equivalent
CVG2140	Mechanics of Materials	Winter	GNG1105
ELG2336	Electric Circuits and Machines for		
	Mechanical Engineering	Winter	PHY1122; corequisite: MAT2384
MAT1348	Discrete Mathematics for Computing	Winter	
MCG2101	Introduction to Design	Winter	MCG1100, MCG2108, (MCG2360 or MCG2141)
MCG2131	Thermodynamics II	Winter	MCG2130
MCG2361	Engineering Materials II	Winter	MCG2360

3rd YEAR (36 credits)

		Session
CSI2110	Data Structures and Algorithms	Fall
ELG3336	Electronics for Mechanical	
	Engineers	Fall
MAT3320	Mathematics for Engineers	Fall
MCG3130	Dynamics of Machinery	Fall
MCG3306	Control Systems I	Fall
MCG3340	Fluid Mechanics I	Fall
ITI1100	Digital systems I	Winter
MCG3110	Heat Transfer	Winter
MCG3131	Machine Design	Winter
MCG3145	Advanced Strength of Materials	Winter
MCG3307	Control Systems II	Winter
MCG3341	Fluid Mechanics II	Winter

4th YEAR (33 credits)

		<u>Session</u>
CEG2136	Computer Architecture I	Fall
CSI2372	Advanced Programming Concepts	
	with C++	Fall
MAT2377	Probability and Statistics for	
	Engineers	Fall
MCG4328	Manufacturing	Fall
Complimentary Electi	ive	Fall
Technical Elective		Fall/Winter
Technical Elective		Fall/Winter
CSI2120	Programming Paradigms	Winter
ECO1192	Engineering Economics	Winter
MCG4308	Mechanical Vibration Analysis	Winter
MCG4340	Mechanical Engineering Laboratory	Winter

5th YEAR (27 credits)

MCG4322	Computer-Aided Design	Fall
CEG3136	Computer Architecture II	Fall
Technical Elective		Fall/Winter
Technical Elective		Fall/Winter
CSI3131	Operating Systems	Winter
GNG4170	Engineering Law	Winter
HIS2129	Technology, Society and	
	Environment since 1800	Winter (HIS2129)
or		
PHI2394	Scientific Thought and Social Value	Fall (PHI2394)
Elective from CSI/SE	G/CEG at the 2000 level or above	Fall/Winter

Session

 Prerequisite(s)

 ITI1121, MAT1348

 ELG2336

 (MAT2121 or MAT2322), (MAT2324 or MAT2384)

 MCG2108

 MAT2384, MCG2108

 MCG2108, MCG2130

 MCG3340

CVG2140, MCG2101, (MCG2361 or MCG2142) CVG2140, MCG2108 MAT3320, MCG3130, MCG3306, MCG3340, ELG3336. Corequisite: MCG3110. MCG3340

Prerequisite(s) ITI1100 ITI1121, ITI1100 MAT1320 or MAT1330; corequisite: MAT1322 or MAT1325 or MAT1332 MCG3110, MCG3340, (MCG2361 or MCG2142)

CSI2110

MAT3320, MCG3130 MCG3110, MCG3131, (MCG3145 or MCG3141), (MCG3307 or MCG3142), (MCG3341 or MCG3143)

Prerequisite(s) 24 MCG credits at the 3000 level CEG2136

CEG2136, CSI2110